REMARKS

With entry of the foregoing amendments, claims 2-29 are now pending in this application. In the previous office action, the Examiner allowed claim 9. The Examiner rejected claims 1, 5, 14 and 15. The Examiner objected to claims 1-4, 6-8 and 10-13. Claim 1 has been canceled. Claims 2-8, 10, 12 and 14 have been amended. New claims 16 through 29 have been added. No new matter is introduced. Reconsideration is respectfully requested.

Allowable Subject Matter

The Applicants thank the Examiner for allowing claim 9.

The Applicants also thank the Examiner for indicating that claims 2-4, 6-8 and 10-13 would be allowable if rewritten in independent form. Claim 2 has been rewritten in independent form including the features of independent claim 1, now canceled. By virtue of at least their dependency upon claim 2, claims 3, 4, 6-8 and 10-13 are also patentable.

With entry of the foregoing amendments, claims 2-4 and 6-13 as now amended are in condition for allowance.

Claim Rejections 35 U.S.C. § 103

The Examiner rejected claims 1, 5, 14 and 15 under 35 U.S.C. § 103(a) as being unpatentable over U.S. Patent 6,381,229 to Narvinger et al. With entry of the foregoing amendments, Applicants respectfully traverse this rejection.

Claim 1 is now canceled with its limitations being incorporated into allowable claim 2. Thus, this rejection of claim 1 is now moot. Applicants reserve the right to file a continuation or divisional application based on the subject matter of claim 1, now canceled.

Claims 5, 14 and 15 are now amended such that they depend upon amended claim 2. By virtue of at least their dependency upon claim 2 as now amended, amended claims 5, 14 and 15 are also patentable.

New Claims

New claims 16 through 29 have been added. No new matter is introduced. Allowance of these additional claims is respectfully requested.

In particular, new claims 16 and 29 are related to the wireless receiver of claim 2 as originally filed that the Examiner appears to have indicated is patentable. These claims were not

previously presented because this indication of patentability was recently identified by the Examiner in the previous office action. For this reason, we believe that the addition of these claims at this time is proper.

Specifically, claims 16 and 29 are directed to a structure and method, respectively, for a wireless receiver to process access channel signals in a digital wireless communication system that involves (i) obtaining a pilot symbol phase estimate by feeding the pilot symbols in the preamble portion to a pilot correlation filter; (ii) obtaining a data symbol estimate by feeding the data symbols in the payload portion to a data symbol correlator; and (iii) using the pilot symbol phase estimate provided by the pilot correlation filter to synchronize detection of the data symbols. The prior art of record does not teach or suggest these features. Claims 3-8, 10 and 12 have been amended to have multiple dependency upon claims 2 and 16. Support for new claims 16 and 29 can be found at least in the Figures 2-4 and in the specification as originally filed on page 8, line 24 through page 9, line 23.

Claims 17-28 are system claims that correspond to claims 2-15 as now amended. The same reasons for patentabilty that apply to claims 2-15 also apply to new claims 17-28. Support for these new claims can be found in FIGS. 4-6 in the specification as originally filed on page 9, line 7 through 12, line 21.
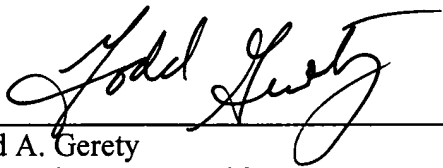
Allowance of new claims 16-29 is respectfully requested.

CONCLUSION

In view of the above amendments and remarks, it is believed that all claims (claims 2-29) are in condition for allowance, and it is respectfully requested that the application be passed to issue. If the Examiner feels that a telephone conference would expedite prosecution of this case, the Examiner is invited to call the undersigned.

Respectfully submitted,

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